

Dear Customer:

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As ordered, SKEMATIKS is pleased to enclose the schematic diagram 7S-AT410-3 and component layout 6S-AT410-3. These blue prints contain information derived from an actual off-the-shelf ATARI 410 recorder. Your particular unit may contain certain components related to various manufacturers' substitutions. The basic schematic and operating levels should be very similar.

The information contained herein is intended to save the qualified service technician hours of circuit tracing. It is not intended as a tutorial. Unauthorized disassembly or modification of your 410 may void any ATARI warranty or service agreement. CAUTION: 117VAC is present during servicing of the ATARI 410.

DC voltage measurements are made with the CONTROL voltage on and the 410 in the STOP mode. CONTROL voltage is applied by the command POKE 54018,52. Use a high impedance DVM for all voltage measurements. It is also convenient to measure playback signals with this POKE command as the computer does not read the data. P-P voltage levels are measured with an oscilloscope. To return to normal, POKE 54018,60.

The ATARI 410 circuitry is very well designed and is not prone to failure. Most 410 problems are mechanical in nature and periodic maintenance is very important.

Maintenance and Operating HINTS:

1. Remember to LPRINT, with your printer off, before saving or loading anything to or from cassette.
2. Clean the recorder head and capstan as outlined in the owners manual. Carefully use your head cleaning swabs and solvent on all drive surfaces inside the 410 too.
3. Dip a flat toothpick into your cleaning solution and insert it in and out of each socket on the I/O plug. Clean connections are vital. Do this on every peripheral you have in the line.
4. Check your head alignment. Use a tape with an audio track such as ATARI's BIORHYTHM CX4107. POKE 54018,52 and PLAY the audio through your TV speaker. Peel up the label on the 410 between the lid and push buttons. Use a small screwdriver to adjust the head alignment while listening for the best high frequency audio output. (In a pinch you may get by using an ordinary stereo music cassette.)
5. If you experience a loading ERROR, remove the tape and check for wrinkles or creases in the medium. Don't leave the 410 in the PLAY or RECORD modes with the motor stopped.

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Thank you for your order. Good computing!

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